

ALABAMA DEPARTMENT OF TRANSPORTATION

THE DIGITAL VACUUM MANOMETER DEVICE AND
DESSICANT DRYING UNIT SHALL BE IN COMPLIANCE WITH
AASHTO T 209

MANOMETERS SHALL GIVE A DIGITAL DISPLAY OF APPLIED VACUUM FROM 0 TO 1000 MM HG. RESOLUTION SHALL BE 0.1MM WITH PLUS OR MINUS 0.5% ACCURACY OF FULL SCALE. MUST BE CAPABLE OF MEASURING RESIDUAL PRESSURE DOWN TO 4.0 KPA (30 MM HG) OR LESS (PREFERABLY TO ZERO). DIGITAL MANOMETER MUST BE CALIBRATED AND TRACABLE TO NIST. THE DIGITAL MANOMETER MUST BE CAPABLE TO USE WITH 9 VOLTS BATTERY OR A 110 AC ADAPTER WITH AUTOMATIC SHUT OFF CAPABILITY.

A T- PORT CONNECTION, 0.25 HOSE BARB AND A NEEDLE VALVE MUST BE INCLUDED AND SHALL BE NEW.

MINIMUM OVERALL DIMENSIONS OF MANOMETERS SHALL BE 3.2x6.5x1.18 INCH (W x D x H).

IT SHOULD INCLUDE A DESSICANT DRYING UNIT THAT EASILY INSTALLS IN-LINE BETWEEN VACUUM PUMP AND RICE TEST EQUIPMENT. THIS REFILLABLE UNIT SHOULD BE 2-5/8" BY 11-3/8" (667 X 289MM) WITH HOSE BARBS AT BOTH ENDS, WHICH SHALL ACCEPT 1/4" TO 3/8" FLEXIBLE TUBING AND SHOULD BE SUPPLIED WITH 650G DESICCANT.

ALL DIGITAL MANOMETERS INCLUDING DESSICANT DRYING UNITS SHALL BE NEW.